

## SEQUENCE LISTING

<110> Japan Science And Technology Agency  
<110> Japan as represented by President of the National Cardiovascular Center

<120> A New Peptide Having Production Activity of cAMP

<130> JA905066

<140> PCT/JP03/06641  
<141> 2003-05-28

<150> JP2002-162797  
<151> 2002-06-04

<160> 22

<170> PatentIn Ver. 2.1

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<212> PRT  
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Gly Ser Pro Phe Asp Pro Ala Thr Leu Ser Glu Glu Ser Arg Leu  
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Leu Leu Ala Ala Met Val Asn Asp Tyr Glu Gln Met Lys Ala Arg Glu  
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Met Gln Lys Gln Arg Ala Gln Gly Ser Gly Ile Ser Val Gln Lys Arg  
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Ser Cys Asn Thr Ala Thr Cys Met Thr His Arg Leu Val Gly Leu Leu  
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Asp Gly Arg Phe Asp Pro Ala Thr Leu Asp Glu Glu Glu Ser Arg Leu  
35 40 45

Leu Leu Ala Ala Met Val Asn Asp Tyr Glu Gln Met Arg Ala Arg Glu  
50 55 60

Ser Glu Lys Ala Gln Lys Thr Glu Gly Ser Arg Ile Gln Lys Arg Ala  
65 70 75 80

Cys Asn Thr Ala Thr Cys Met Thr His Arg Leu Ala Gly Trp Leu Ser  
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Arg Ser Gly Ser Met Val Arg Ser Asn Leu Leu Pro Thr Lys Met Gly  
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Phe Lys Ile Phe Asn Gly Pro Arg Arg Asn Ser Trp Phe  
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<211> 38

<212> PRT

<213> Canis sp.

<220>

<223> CanisCRSP

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<212> DNA

<213> Canis sp.

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20 25 30

Glu Asn Pro Pro Asp Ser Gly Val Arg Asn Glu Glu Glu Leu Arg Leu  
35 40 45

Leu Leu Ala Ala Val Met Lys Asp Tyr Met Gln Met Lys Thr His Glu  
50 55 60

Leu Glu Gln Glu Gln Glu Thr Glu Gly Ser Arg Val Ala Val Gln Lys  
65 70 75 80

Arg Ser Cys Asn Ser Ala Thr Cys Val Ala His Trp Leu Gly Leu  
85 90 95

Leu Ser Arg Ala Gly Ser Val Ala Asn Thr Asn Leu Leu Pro Thr Ser  
100 105 110

Met Gly Phe Lys Val Tyr Asn Arg Arg Arg Glu Leu Lys Ala  
115 120 125

<210> 12  
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Asp Ser Lys Ile Leu  
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<213> Swine

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20 25 30

Glu Ser Ser Phe Asp Ser Ala Thr Leu Thr Glu Glu Glu Val Ser Leu  
35 40 45

Leu Leu Val Ala Met Val Lys Asp Tyr Val Gln Met Lys Ala Thr Val  
50 55 60

Leu Glu Gln Glu Ser Glu Asp Phe Ser Ile Thr Ala Gln Glu Lys Ser  
65 70 75 80

Cys Asn Thr Ala Ser Cys Val Thr His Lys Met Thr Gly Trp Leu Ser  
85 90 95

Arg Ser Gly Ser Val Ala Lys Asn Asn Phe Met Pro Thr Asn Val Asp  
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Ser Lys Ile Leu Gly  
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<210> 15

<211> 7673

<212> DNA

<213> Swine

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aaaaatattttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3300  
ggcacagttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3360  
caaatcttc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3420  
agaatcatca acctgttgcgtt cttttttttt tttttttttt tttttttttt tttttttttt 3480  
gggacccgggg atgtttttt tttttttttt tttttttttt tttttttttt tttttttttt 3540  
ggagaggat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3600  
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3660  
ctttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3720  
ctttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 3780  
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<211> 37  
<212> PRT  
<213> Swine

<220>  
<221> modified amino acid  
<222> (37)  
<223> Leucine amide

<220>  
<223> CRSP-3

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Ser Cys Asn Thr Ala Ile Cys Val Thr His Lys Met Ala Gly Trp Leu  
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Ser Arg Ser Gly Ser Val Val Lys Asn Asn Phe Met Pro Ile Asn Met  
20 25 30

Gly Ser Lys Val Leu  
35

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<212> DNA  
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<220>  
<223> CRSP-3 cDNA

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tggaaagtcc cccccccttctt gatccctcagc atcctggtcc tgcaccaagc aggaatgctc 180  
catgcccgcgc cattcaggat ggcttggga agcagcttg attctgcac actcacggaa 240  
gaggaaatgt ccctcctact ggttgcataat gtgaaggatt atgtgcagat gaaggccact 300  
gtgctggagc aggagacaga ggacttcagc atcaccaccc aggagagatc ctgcaacact 360  
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caggcctgag ctgtaaaatg actctaaaaa gaagttaaac tcaagttgtt ttcactgcaa 540  
atgtgcattt cctgcattt aaaaagaacca atttggaaaaa tagcatgaa gacacacata 600  
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gaataaaaatc attgcagttt cctgtt 685

<210> 18  
<211> 125  
<212> PRT  
<213> Swine

<220>  
<223> precursor peptide of CRSP-3

<400> 18  
Met Gly Phe Trp Lys Phe Pro Pro Phe Leu Ile Leu Ser Ile Leu Val  
1 5 10 15

Leu Tyr Gln Ala Gly Met Leu His Ala Ala Pro Phe Arg Met Ala Leu  
20 25 30

Gly Ser Ser Phe Asp Ser Ala Thr Leu Thr Glu Glu Glu Met Ser Leu  
35 40 45

Leu Leu Val Ala Met Val Lys Asp Tyr Val Gln Met Lys Ala Thr Val  
50 55 60

Leu Glu Gln Glu Thr Glu Asp Phe Ser Ile Thr Thr Gln Glu Arg Ser  
65 70 75 80

Cys Asn Thr Ala Ile Cys Val Thr His Lys Met Ala Gly Trp Leu Ser  
85 90 95

Arg Ser Gly Ser Val Val Lys Asn Asn Phe Met Pro Ile Asn Met Gly  
100 105 110

Ser Lys Val Leu Gly Arg Arg Arg Gln Pro Gln Ala  
115 120 125

<210> 19

<211> 33

<212> PRT

<213> Swine

<220>

<221> modified amino acid

<222> (33)

<223> Serine amide

<220>

<221> modified amino acid

<222> (1)

<223> pyroglutamic acid

<220>

<223> CT-2

<400> 19

Glu Cys Asn Asn Leu Ser Thr Cys Val Leu Gly Thr Tyr Thr Trp Asp  
1 5 10 15

Val Asn Lys Phe Tyr Ala Phe Pro Leu Thr Thr Thr Gly Ile Arg Val  
20 25 30

Ser

<210> 20

<211> 802

<212> DNA

<213> Swine

<220>

<223> CT-2 cDNA

<400> 20

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tggaagttcc ccccttcct gatcctcagc atcctggtcc tgtaccaagc aggaatgctc 180  
catgccgcgc cattcaggat ggctttggga agcagcttg attctgccac actcacggaa 240  
gaggaaatgt ccctctact ggttgcataat gtgaaggatt atgtgcagat gaaggccact 300

gtgctgggc aggagacaga ggacttcagc ctggacagct ccagagctaa gcagtcaat 360  
aatctgagta cctgtgtctt gggAACATAT acatgggacg tcaacaagtt ttatgcattc 420  
cccttaacta caactggat tagagtatctt ggcaagaaat gggcaggcc cagagtctca 480  
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ctccctctt ctatgtctc tcctagaatt tgcattgtttt cttctctggg tgctctctga 600  
gctgctatca gcagcttcc ttgtggccat ggatgtctgg aatatcagag aggagggtggg 660  
gggtgggggc aggaggcca gaagaaaatc actcaggaat agattaggag agaatggca 720  
gccctgttag tgcctgtgga tttcacagca gagcttctca gtcctgcttc tgaacatgct 780  
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<211> 162  
<212> PRT  
<213> Swine

<220>  
<223> precursor peptide of CT-2

<400> 21  
Met Gly Phe Trp Lys Phe Pro Pro Phe Leu Ile Leu Ser Ile Leu Val  
1 5 10 15

Leu Tyr Gln Ala Gly Met Leu His Ala Ala Pro Phe Arg Met Ala Leu  
20 25 30

Gly Ser Ser Phe Asp Ser Ala Thr Leu Thr Glu Glu Glu Met Ser Leu  
35 40 45

Leu Leu Val Ala Met Val Lys Asp Tyr Val Gln Met Lys Ala Thr Val  
50 55 60

Leu Glu Gln Glu Thr Glu Asp Phe Ser Leu Asp Ser Ser Arg Ala Lys  
65 70 75 80

Gln Cys Asn Asn Leu Ser Thr Cys Val Leu Gly Thr Tyr Thr Trp Asp  
85 90 95

Val Asn Lys Phe Tyr Ala Phe Pro Leu Thr Thr Thr Gly Ile Arg Val  
100 105 110

Ser Gly Lys Lys Trp Val Arg Ala Arg Val Ser Glu Lys Val His Tyr  
115 120 125

Pro Ser Arg Gln His Thr Leu Arg Cys Leu Arg Arg Pro Pro Pro Leu  
130 135 140

Leu Leu Ser Ser Ser Pro Arg Ile Cys Met Cys Ser Ser Leu Val  
145 150 155 160

Ala Leu

<210> 22  
<211> 7142  
<212> DNA  
<213> Swine

<220>  
<223> gene of CRSP-3 and CT-2

<400> 22



